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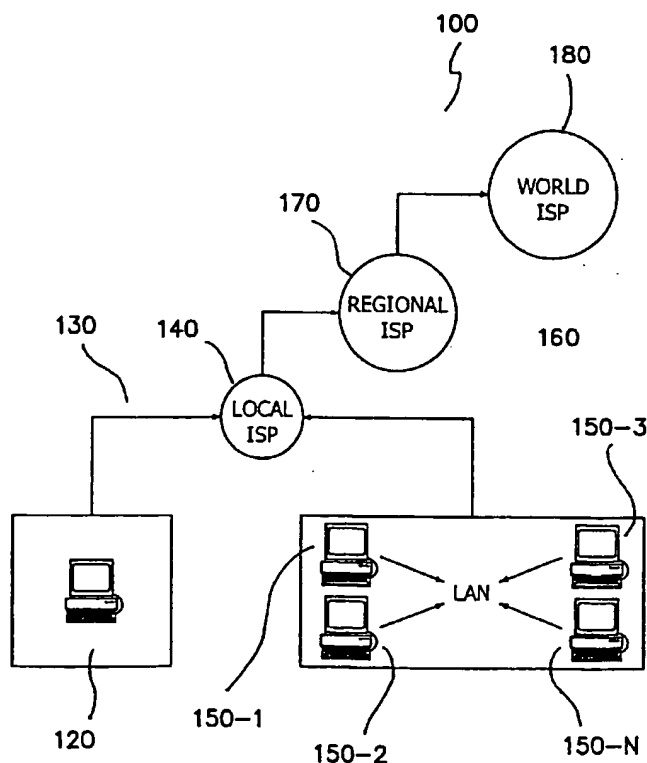
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(54) Title: ONLINE BIDDING SYSTEM



(57) Abstract: An online auction system comprising a preliminary bidding portion and a virtual auction portion is disclosed herein. The preliminary bidding portion allows bidders to access auction items and input bids during a preestablished extended period of time. After the preliminary bidding portion concludes, the virtual auction portion provides bidders the opportunity to input bids on each item consecutively and individually from the preliminary auction portion in a manner similar to a conventional live auction. During the virtual auction portion, bidders are provided with a countdown to encourage further bidding before the previous bid becomes final. After each new bid is inputted, the countdown is reinitiated. The countdown is reinitiated until no new bids are input. An alert system notifies bidders that a particular item of interest is about to be offered for bid as part of the virtual auction portion. The system also provides bidders means for inputting proxy bids.



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## ONLINE BIDDING SYSTEM

## CROSS REFERENCE TO RELATED APPLICATIONS

5 [0001] This application claims the benefit of provisional Application No. 60/479,716, filed June 18, 2003.

## FIELD OF THE INVENTION

10 [0002] The embodiments of the present invention relate to an auction facilitated by a computer network. More particularly, a global computer network that provides a framework for implementing a unique auction system.

## BACKGROUND

15 [0003] The Internet is the most-widely recognizable global computer network in existence. The computers of the Internet are linked via globally unique address space called Internet Protocol (IP) addresses. Since its explosion in the early 1990s, the Internet has enhanced the prosperity of businesses related to everything from gaming to music to retail sales. In fact, as more and more people have gained access to the Internet and have learned to effectively navigate the Internet, Internet sales have continued to increase at an incredible rate. One extremely successful online business  
20 venture has been the advent of the online auction.

[0004] For their part, online auctions have reduced auctioneer fraud and collusion between a live auctioneer and live bidders. In addition, online auctions are limitless in their scope. Because of their ease of use, online auctions attract millions of sellers and buyers each and every day for the sole purpose of auctioning off and buying goods.  
25 Clearly, live auctions of such a scale are not realistic where bidders must be physically present.

[0005] Traditionally, live auctions utilize a format whereby items put up for bid are placed on an auction sale list. Thereafter, the listed items are auctioned consecutively at a preestablished date and time. When the live auction begins, one listed item at a

time is auctioned off until no items remain. The auction on individual items ends when no further bids are submitted.

[0006] In contrast, typical online auctions allow for multiple items to be auctioned simultaneously. The start and finish time for the online auction items is independent from the other items being auctioned. Additionally, online auctions end at a preestablished time rather than when no further bids are submitted.

[0007] Even though the recognized auction websites are very successful, the current online auction format is slow, cumbersome and frequently inefficient in garnering a maximum sales price for the items being auctioned. By way of one example, typical online auctions allow sellers to auction items for a preestablished duration of time (e.g. 5 days). When bidders go online to access and view a particular item of interest, they are provided a record of the time remaining until the auction ends. As people bid for a particular item, they can only hope that another bidder does not bid so close to the end of the auction that it is then impossible for the original bidder to place another bid. Of course, under the existing online auction format such intentional late bidding is a frequent and planned occurrence. Moreover, this online auction format does not encourage any true bidding "frenzy" until the last few minutes of the auction. Unfortunately, for sellers this online auction format does not always result in a bidding environment that allows the seller to maximize the sales price of their item up for auction. In other words, just as the bidding "frenzy" has started, the bidding is routinely terminated according to the preestablished time set for the auction's expiration.

[0008] Therefore, there is a need for an online auction system that provides sellers with a legitimate opportunity to maximize returns, while retaining the inherent benefits for both sellers and buyers of conventional online auction systems.

#### SUMMARY

[0009] Accordingly, the embodiments of the present invention provide a preestablished time duration during which online bidders may bid on presented items simultaneously (hereinafter referred to as "preliminary bidding"). However, the duration of time acts as a countdown to a beginning of a virtual auction rather than a countdown

associated with an end of the auction. The preliminary bidding portion of the auction allows online bidders to view all items being sold and to place bids in a manner analogous to current online auction sites. However, once the preliminary bidding portion ends, the virtual or dynamic auction portion begins and is conducted in a fashion analogous to a traditional live auction (hereinafter referred to as "virtual auction"). Therefore, during the virtual auction portion items are auctioned in a consecutive fashion.

[0010] The initial bid for the virtual auction is the final high bid obtained from the preliminary bidding portion. Once the virtual auction begins, online bidders may continue to submit bids until no further bids are forthcoming. For example, if an item up for bid as part of the preliminary bidding portion ends with a current high bid of \$500, the virtual auction portion opens with a beginning bid of \$500. Bidders are then provided the opportunity to input a higher bid within a preestablished time period (e.g. 30 seconds). The difference between a current high bid and any new bid submitted may also need to meet a preestablished minimum bid increment. In other words, new bids may be required to be at least a minimum amount of money (e.g. \$5 or \$100) more than the existing high bid. To encourage a bidding "frenzy" a countdown timer is displayed on each online bidders' screen during the virtual auction. Additionally, words or phrases associated with auctions, such as "going, going, gone", may be displayed on the computer screen and/or audibly available to the online bidders. The virtual auction continues until each item offered during the preliminary bidding portion has been individually auctioned to its conclusion.

[0011] Bidders who participate in the preliminary bidding portion have the option of authorizing a computer server to submit bids on their behalf up to a specified maximum amount. In other words, the bidder authorizes the computer server to act as a proxy to submit bids on behalf of the bidder. If the bidder causing a proxy bid to be submitted is the high bidder during the preliminary bidding portion, the computer server will continue to submit higher bids, if necessary, during the virtual auction portion. The system automatically bids for the bidder until the maximum proxy bid is exceeded or the bidding stops at or below the maximum bid amount. The automatic bid feature has

been termed "Bid Butler" by the applicant. In a similar manner, the automatic bid feature may also be utilized during the preliminary auction portion.

5 [0012] Online bidders may also request that they be alerted that a particular item is about to become the subject matter of the virtual auction. In this manner, online bidders do not have to pay attention to numerous individual auctions related to items which they do not have an interest. The alert may be in the form of a subtle audible alarm, a telephone call, a flashing PC display, instant messaging or some other notification means. In general, any means for alerting the bidder is applicable.

10 [0013] While disclosed briefly above, the auction system comprises many features and attributes which are disclosed in greater detail below.

#### BRIEF DESCRIPTION OF THE DRAWINGS

[0014] Fig. 1 is an illustration of a conventional global computer network;

15 [0015] Fig. 2 is an illustration of a bidder screen accessed during a preliminary auction portion of the embodiments of the auction system;

[0016] Fig. 3A is an illustration of a bidder screen during a virtual auction portion of the embodiments of the auction system;

[0017] Fig. 3B is another illustration of a bidder screen during a virtual auction portion of the embodiments of the auction system; and

20 [0018] Fig. 4 is an illustration of a bid matrix.

#### DETAILED DESCRIPTION

25 [0019] Reference is now made to the figures wherein like parts are referred to by like numerals throughout. A conventional global computer network generally depicted as reference numeral 100 includes a plurality of computers linked to one another. The network 100 allows all of the computers to communicate with one another. For example, a home personal computer (PC) 120 may be linked to the network 100 (e.g. the Internet) via a phone-line modem, DSL or cable modem 130 that talks to a local internet service provider (ISP) 140. In a business environment, the business will  
30 usually have a network interface card (NIC) that directly connects to a local area

network (LAN) inside the business. The LAN comprises a plurality of local computers 150-1 through 150-N. The business can then connect its LAN to the local ISP 140 using a high-speed phone like a T1 line 160.

5 [0020] Each local ISP 140 then connects to a larger regional ISP 170 so that the larger regional ISPs 170 connect a geographic region. The regional ISPs 170 are then connected to even larger ISPs 180 which connect the world. In this way, every computer on the Internet is connected to every other computer on the Internet.

10 [0021] To keep all of the computers straight, each computer on the Internet is assigned a unique address called an Internet Protocol (IP) address. The IP address comprises a string of numbers. Since most people have trouble remembering the strings of numbers that make up an IP address, and since IP address sometimes need to change, all servers on the Internet also have human-readable names. The servers provide services including software applications to user machines (i.e. non-server computers).

15 [0022] The embodiments of the present invention are facilitated by the Internet but do not include altering the Internet as it operates today. Therefore, for the sake of brevity, the minute details of the Internet and its operation are not set forth herein.

20 [0023] In a first embodiment of the present invention, an auction comprises a preliminary bidding component and a virtual auction component. In the preliminary bidding component, online bidders access the IP address/domain name corresponding to a website offering the auction service. Once the bidder has accessed the website, they may be required to register for the auction. The registration process may include the bidder providing personal or business information (e.g. name, address, telephone number, etc.), providing a method of payment (e.g. credit card number, bank account  
25 number, etc.) in case the bidder prevails with respect to specific item or items and any other information necessary to implement the online auction, such as a user name and password allocation. Once the registration process is completed the bidder is provided access to items up for bid. It is further envisioned that a registered bidder may be able to access a preliminary auction and a virtual auction by clicking on identified icons or  
30 windows displayed on an auction website or website linked to the auction website.

[0024] All items offered for bid are assigned to a particular auction date and time and are grouped on a "sale list" with other items assigned to the same date and time. Each item is accompanied by a written description and at least one or more static pictures of the item. Optionally, bidders may view a video type presentation of the item. Alternatively and additionally, bidders may be provided with access to a dynamic picture that may be rotated through 360 degrees allowing a complete view thereof. The specific presentation of the item is based on the preference of the specific website offering the auction. The objective is to provide bidders with a full and complete understanding of the item and its condition so that the bidders may make an educated bid.

[0025] During the preliminary bidding portion of the auction, bidders may enter bids on any item contained on the sale list until the preliminary bidding portion ends at a preestablished time. For example, the preliminary bidding portion may last as little as one day, but more often the preliminary bidding portion will last longer (e.g., two weeks) so that bidders can review and enter bids on an item in an open bid format. Preliminary bidding typically ends at some preestablished time prior to the scheduled start time of the virtual auction. A current high bid, along with a minimum required bid increment and lowest possible allowed bid, is displayed for the bidder to review. Thus, during the preliminary bidding portion, bidders are free to input bids on any of the items desired.

[0026] During the preliminary bidding portion of the auction, bidders may also input proxy bids. Proxy bids are bids that indicate the bidder is willing, if necessary, to bid up to a maximum amount specified by the bidder. Proxy bids are usually, but not always, a fair amount above the current bid. Therefore, if the current bid is \$100, a bidder may input a proxy bid of \$250 indicating that the bidder is willing to pay up to \$250 to purchase the item. During the preliminary bidding portion of the auction, the website, or more precisely the website server will, on behalf of the bidder who submitted the proxy bid, submit bids in the minimum bid increment (e.g., \$10) in response to each higher bid submitted by another bidder. However, the bidder's bid never automatically increases above the \$250 proxy bid. In the aforementioned example, the proxy bidder's first bid may be automatically input as \$110 (i.e., \$10 more



than the previous high bid). If another bidder inputs a \$120 bid, the server automatically increases the proxy bidder's bid to \$130. This procedure continues until a bid exceeds \$250, at which time the proxy bidder is eliminated since the bid has exceeded his or her maximum bid amount, or the proxy bidder's input bid, which is less than or equal to \$250, causes all other bidders to stop bidding. As described in detail below, regardless of the outcome of the preliminary bidding portion of the auction, the item remains available for auction during the virtual auction portion. In other words, the item has not been sold. If in the same example, the preliminary bidding ends at 4200 and the proxy bidder is the high bidder, the server will continue to submit proxy bids, not to exceed 4250, on behalf of the bidder during the virtual auction.

[0027] Now referring to Fig. 2, a bidder screen 200 accessed during a preliminary bidding portion of the embodiments of auction system is shown. It is noted that the bidder screen 200 is probably not the first screen that online bidders will see when they access a website offering the auction. In most instances, the first page is likely an auction company screen that provides bidders and other online users with information related to the auction company and links to other materials of interest, including sale lists. Also, the first page includes a link to the bidder screen 200 or an indirect link reachable by first viewing a sale list or some other method of locating the desired items for viewing and bidding.

[0028] In a first embodiment, the bidder screen 200 is accessible only after the aforementioned registration process has been completed and after the item has been selected from the auction sale list or has otherwise been located through various search functions provided on the website. Ideally, to access the bidder screen 200, the bidder must input the username and password selected during the registration process. The screen 200 includes item pictures 210, a written description of the item 220, a bid entry window 225 and a submit bid icon 230. The screen also includes instructions 235 regarding the Bid Butler. The Bid Butler monitors the auction and increments a bidder's bid pursuant to a maximum input bid. Thus, once the Bid Butler reaches the bidder's maximum bid, the Bid Butler stops placing incremental bids for the bidder. The screen may also display a countdown timer (not shown) displaying the amount of time

remaining for the preliminary bidding portion of the auction and a time window (not shown) for showing a start time of the virtual auction portion. Alternatively, a proxy bid window for allowing bidders to place proxy bids may be displayed on screen 200. Optionally, the screen 200 may also include an icon for rotating the item pictures 210 or an icon for playing a streaming video depiction of the item being auctioned. The screen may also display a bid log for displaying the preliminary bidding history as explained, with respect to the virtual auction portion, in more detail below.

[0029] The bid entry window 225 allows bidders to enter bids. The bid entry window 225 treat bids in excess of the next bid increment as proxy bids. For example, if the current high bid is \$500 by a first bidder and the minimum required bid increment is \$50, the next bid should be \$550. However, if a second bidder decides to enter a bid of \$1000, the bid is treated as a proxy bid. Thus, the current high bid is set at \$550 and credited to the second bidder. If the first bidder then bids \$600, the system automatically increases the second bidder's bid to \$650. This continues until the second bidder is the high bidder with no further bids forthcoming or until the second bidder's \$1000 bid is exceeded. Thereafter, if desired, the second bidder may enter another bid or series of bids.

[0030] The length of time of the preliminary bidding portion of the auction is determined by the entity or individual controlling the website offering the auction. It is contemplated that the length of time should be in terms of days to permit the items to be viewed and studied by all interested parties. Nonetheless, there are no explicit time frame parameters.

[0031] The operations of the website (i.e., the countdown timer, the rotation of the pictures, access to various screens, etc.) offering the embodiments of the present invention are controlled by a server corresponding to the website. The server provides the software and other computer technology necessary to control the operation of the website and its many features. Since such website operations and corresponding servers are well known in the industry, they do not need to be intimately described herein.

5 [0032] Once the preliminary bidding portion of the auction has ended, no more bids may be input by online bidders. After the end of the preliminary bidding portion of the auction, the virtual portion of the auction is set to begin. Screen 200 includes a start time for the virtual portion of the auction. The time between the end of the preliminary bidding portion and the start of the virtual portion is again determined by the operator of the website offering the auction.

10 [0033] Now referring to Fig. 3A, a bidder screen 300 accessed during a virtual auction portion of the embodiments of the auction system is shown. The virtual auction proceeds in a manner analogous to a traditional live auction. In other words, the virtual auction takes place in real time with items being auctioned consecutively. However, unlike a traditional auction, the virtual auction begins with a higher opening bid and the auction time is drastically reduced because of the preliminary auction. However, the website server acts as the auctioneer and controls the auction. Once again, in a first embodiment, bidders need to be registered to gain access the virtual auction screen.

15 If the bidder is already registered, they will only need to input their username and password to access the virtual auction screen 300. Thereafter, each item will be auctioned consecutively and individually until all items have been offered for auction. In practice, as soon as one item has been auctioned, the next item will be offered. The auction is controlled by the website server or similar device.

20 [0034] The virtual auction screen 300 includes item pictures 310, a bid log 315, a written description of the item 320 and a bid entry window 325. The bidding history in the bid log 315 starts with the current bid from the preliminary auction portion which is indicated as the "starting bid." The bid log 315 is the focal point of the virtual auction portion because, as shown in both Figs. 3A and 3B, it identifies each bid, the location of the corresponding bidder and a countdown sequence to indicate that the item is about to be sold if no further bids are received. For example, as shown in Fig. 3A, the countdown may show Five, Four, Three, Two, One and SOLD to inform bidders that they must submit another bid quickly or lose the item. When any bid is received during the countdown sequence, the countdown ceases and resets a preestablished number

25 of seconds later. If no bids are received during the countdown sequence, the item is

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sold. If no bids are submitted during the virtual auction portion, the high bidder from the preliminary bidding portion is awarded the item as the high bidder. As set forth above, bidders may also need to input a bid that is a preestablished increment (e.g. \$5) more than the previous bid. Thereafter, the next item up for auction from the sale list is displayed and the bid log 315 shows the "starting bid".

[0035] While the amount of time allotted between bids may remain constant (e.g. thirty seconds), it may also be decreased, as the bidding advances, to minimize the length of the virtual auction. For example, the time between bids may be incrementally decreased to only fifteen seconds should the virtual bidding continue for a preestablished length of time such as three minutes. The decreased amount of time between bids will encourage bidders to input bids that they are confident will prevail. In any event, the time allotted between bids is arbitrary but should be a sufficient time to allow bidders a realistic opportunity to input a new higher bid.

[0036] To further encourage a bid "frenzy" the screen 300 may also display words or phrases associated with the virtual auction. For example, as the bid log 315 counts down, the screen 300 may further display the phrase "going, going, gone" to encourage bidders to input additional bids. Alternatively, the words or phrases can be audibly reproduced by the speakers of a networked PC. In this manner, the audible words and phrases have the effect of creating a live auction environment.

[0037] It is also contemplated that the geographic location of individual bidders may be displayed or enunciated over the networked computers as shown in Fig. 3B. By providing the geographic location of the bidders, the auction's magnitude is reinforced thereby promoting the concept being offered. In essence, the geographic indicator is free public relations informing the bidders of the mass appeal of the auction site. Thus, one or more bidders may desire to use the website to auction off his or her own goods.

[0038] In a first embodiment of the auction system, any unused proxy bid authority remaining from the high bidder of the preliminary bidding portion of the auction is carried over to the virtual auction portion. In the same manner as the preliminary bidding portion, the server acts to automatically input a bid for the proxy bidder until the maximum amount has been reached. Optionally, proxy bidders may instruct the server

that proxy bids are not to be carried over to the virtual auction portion. In fact, screen 200 and/or screen 300 may include an icon or window for bidders to decline or accept carrying their proxy bids from the preliminary auction portion to the virtual auction portion. The virtual auction can allow for proxy bids to be submitted during the virtual auction, or in the alternative can treat any submitted bid that is higher than the required minimum bid as a straight bid to be submitted directly into the auction.

[0039] In the first embodiment, each item presented during the preliminary auction portion is also presented during the virtual auction portion. Since items are auctioned consecutively during the virtual auction portion, there will be a delay between the start time of the virtual auction portion and the time certain items are offered during the later stages of the virtual auction. Therefore, the embodiments of the present system incorporate a method for providing bidders with notice that a specific item is about to be offered for bid as part of the virtual auction. Screen 200 and/or screen 300 incorporate an identification number entry window for bidders to enter item identification numbers associated with specific items being auctioned. Based on the item identification numbers input by the bidders, the system is instructed that certain bidders are interested in being notified that the certain specific items are about to be offered for bid as part of the virtual auction. As most bidders will be using PCs with corresponding speakers, the bidders may be alerted by an audible alarm indicating that the item of interest is about to be offered for auction. Alternatively, a flashing PC screen, a telephone call, pager alert or instant messaging may be used to alert the bidder. Any suitable manner of notification is contemplated herein.

[0040] The timing of said alerts, like the time allowed between bids, is arbitrary but should be enough time to allow bidders to return to their PCs (or other network device) and input bids. For example, the alert may begin five minutes before the item is expected to come up for auction, or alternatively when there are only five items up for bid prior to the auction for the item of interest.

[0041] To increase the ease and speed of inputting bids during the virtual auction portion, a bid matrix as shown in Fig. 4 may be incorporated on screen 300. The bid matrix 400 holds a preestablished collection of individual bids 410-1 through 410-N

which are incremented in a pre-set format to correspond to the item up for bid. In this manner, the bidder simply clicks on, or moves a displayed indicator icon to, a desired bid causing that bid to be automatically input. Besides the use of a computer mouse or keyboard keys, a touchscreen may also be used to select the desired input bid. The matrix 400 eliminates the need for bidders to input a dollar value of bids which may require three or more key strokes and may lead to errors.

[0042] The particular values associated with the individual bids 410-1 through 410-N are a function of the initial virtual auction bid (i.e. the final preliminary auction bid) of the specific item being offered. Moreover, the difference between successive individual bids 410-1 through 410-N is also a function of the initial bid of the specific item being offered. In other words, a high priced item may have a larger separation between bids 410-1 through 410-N than a lower priced item. The bid matrices may be, based on a anticipated bid, predetermined for each item being auctioned or may be generated in response to the initial virtual auction bid. Such predetermined matrices are beneficial in situations when a minimum bid has been established such that the matrix 400 of individual bids 410-1 through 410-N can be anticipated. Alternatively, as set forth above, the bid matrix 400 may be generated in response to the initial virtual auction bid. In this manner, a library of pre-generated matrices may be stored on the server or similar storage device prior to the auction and may automatically be retrieved based on the initial virtual auction bid. Alternatively, the bid matrix 400 may be originally generated in response to the initial virtual auction bid by a server application.

[0043] Although the invention has been described in detail with reference to a preferred embodiment, additional variations and modifications exist within the scope and spirit of the invention as described and defined.

## WE CLAIM:

1. An online auction system for remotely located bidders comprising:
  - a preliminary bidding component conducted over a computer network, said
  - 5 preliminary bidding component simultaneously offering for auction a plurality of items for a preestablished duration of time; and
  - a dynamic real-time auction component conducted over the computer network and beginning after expiration of the preestablished duration of time following the end of the preliminary bidding component, said dynamic auction component offering for auction
  - 10 consecutively and individually each of the plurality of items from the preliminary auction component whereby an initial dynamic bid on each item is equivalent to a final bid for the item received during the preliminary bidding component.
2. The system of claim 1 wherein said dynamic real-time auction is conducted similar
- 15 to a live auction.
3. The system of claim 1 wherein proxy bids are accepted during the preliminary auction component.
- 20 4. The system of claim 3 wherein a proxy bidder's current bid is automatically increased by a minimum increment in response to a higher bid, said automatic bid increases continuing until no further higher bids are forthcoming or until a maximum proxy bid has been reached.
- 25 5. The system of claim 1 further comprising a countdown timer displayed on a screen of each remotely located bidder during the dynamic auction component, said countdown timer used to inform each bidder of a running time remaining until the item can no longer be bid on.
- 30 6. The system of claim 5 wherein the countdown timer resets in response to a

bid being input.

5 7. The system of claim 1 further comprising a means for alerting bidders during the dynamic auction component that a specific item of interest is nearly ready to be offered for auction.

8. The system of claim 7 wherein the means for alerting bidders is an audible alarm output by networked computers being used by bidders.

10 9. The system of claim 7 wherein the means for alerting bidders is a telephone call placed to bidders.

10. The system of claim 7 wherein the means for alerting bidders is an instant message transmitted to networked computers being used by bidders.

15 11. The system of claim 7 wherein the means for alerting bidders is a pager alert transmitted to bidders.

20 12. The system of claim 7 wherein the means for alerting bidders is an electronic mail message transmitted to bidders.

13. The system of claim 1 wherein bids in excess of a preestablished bid increment are treated as proxy bids.

25 14. The system of claim 3 wherein proxy bids by the high bidder during the preliminary bidding component are carried over to the dynamic auction component.

30 15. A method of conducting an auction over a computer network comprising:  
offering a preliminary bidding on items whereby a plurality of items are simultaneously offered for auction for a preestablished time period;



offering a dynamic real-time auction upon expiration of said preestablished time period whereby said items auctioned during the preliminary auction are offered for auction consecutively and individually with an initial bid equal to a final bid received during the preliminary auction.

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16. The method of claim 15 further comprising conducting the dynamic real-time auction similar to a traditional live auction.

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17. The method of claim 15 further comprising accepting proxy bids during the preliminary auction.

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18. The method of claim 17 further comprising automatically increasing a proxy bidder's current bid by a minimum amount in response to a higher bid, said automatic bid increasing continuing until no further higher bids are forthcoming or until a maximum proxy bid has been achieved.

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19. The method of claim 15 further comprising displaying a countdown timer on a screen of each remotely located bidder during the dynamic auction, said countdown timer informing each bidder of a time remaining until the item can no longer be bid on.

20. The method of claim 17 further comprising resetting the countdown timer in response to an input bid.

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21. The method of claim 15 further comprising alerting bidders that a particular item of interest is about to be auctioned.

22. The method of claim 21 wherein alerting bidders is accomplished by an audible signal output by networked computers being used by bidders.

30

23. The method of claim 21 wherein alerting bidders is accomplished by a

telephone call placed to bidders.

24. The method of claim 21 wherein alerting bidders is accomplished by an instant message transmitted to networked computers being used by bidders.

5

25. The system of claim 21 wherein the means for alerting bidders is a pager alert transmitted to bidders.

10

26. The system of claim 21 wherein the means for alerting bidders is an electronic mail message transmitted to bidders.

27. The method of claim 15 further comprising treating bids in excess of a preestablished bid increment as proxy bids.

15

28. The system of claim 15 further comprising carrying over proxy bids placed during the preliminary bidding to the dynamic auction.

20

29. An auction conducted over a computer network comprising:  
a first auction portion simultaneously offering a plurality of items for auction for a preestablished duration, said computers causing the display of a first auction portion status, including a current high bid and optionally showing a first auction countdown timer showing a running time until the first auction portion ends; and

25

a second real-time virtual auction portion offering the plurality of items consecutively and simultaneously for auction whereby each item offered for auction during the second auction portion has an initial established bid equal to a final bid received during the first auction portion, said computers causing the display of a status, including a current high bid and a second auction portion countdown timer showing a running time until no further bids can be input.

30. The auction of claim 29 further comprising a means for alerting interested users during the second real-time virtual auction that a specific item is close to being offered for bid.

5 31. The auction of claim 29 wherein the real-time virtual auction is conducted like a traditional live auction.

32. The auction of claim 29 wherein the second auction portion countdown timer resets in response to an input bid.

10

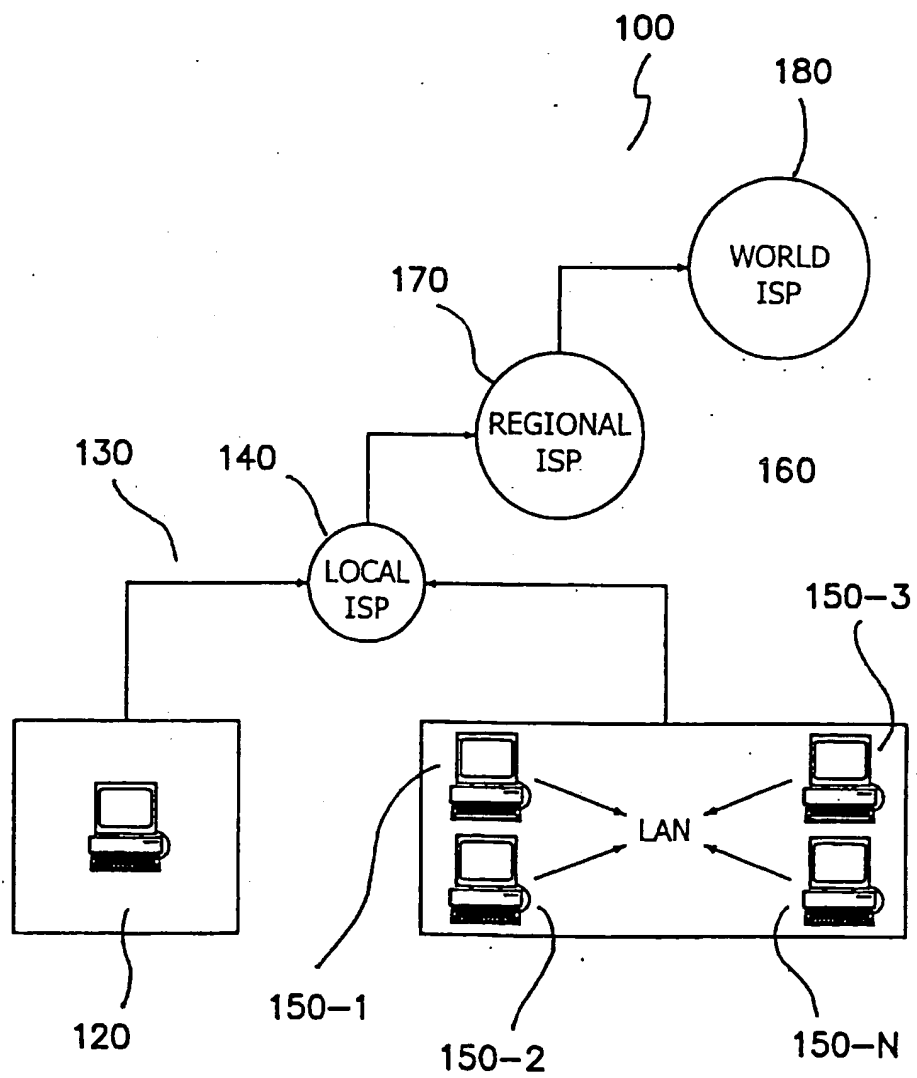


Figure 1

90 ACUR INTEGRA GS BLACK  
LOT NUMBER 00139969

210  200


FACILITY: VALLEJO  
EXPECTED SALE DATE: 05/17/02  
DESCRIPTION: 90 ACUR INTERA GS BLACK  
CURRENT BID: \$6,800  
BID INCREMENT: \$100 220  
LOWEST POSSIBLE BID: \$6,900

YOUR BID:  225 230

SUBMIT YOUR MAXIMUM BID AND COPART'S BID BUTLER WILL CONTINUOUSLY MONITOR THE AUCTION AND INCREMENTALLY RAISE YOUR CURRENT BID TO BEAT FUTURE BIDDERS. BID BUTLER WILL ONLY RAISE YOUR CURRENT BID UP TO YOUR MAXIMUM BID WHEN A HIGHER BIDDER HAS OUTBID YOUR CURRENT BID, NOT YOUR MAXIMUM BID. ALSO, IF YOU HOLD THE HIGHEST MAXIMUM BID AT VB2 AUCTION TIME, YOUR CURRENT BID WILL BE USED AS THE STARTING BID FOR VB2.

SUBMITTED 235

Figure 2



VIRTUAL AUCTION

PORTLAND

ITEM # 339

LOT # 07991941

2000 FORD F350 SUPER DUTY

COLOR BLACK

VIN 0

MILEAGE 50,103

ACV 25,775

REPAIR COST 0

TITLE TYPE SALVAGE CERTIFICATE

DAMAGE TYPE ALL OVER

BID \$2,050

ENTER BID

GO

BID LOG

\$2,050 YOUR BID  
GOING...

FIVE...

FOUR...

THREE...

TWO...

ONE...


SOLD

SOLD \$2,050 YOUR BID

RUNNING

Figure 3

310



VIRTUAL AUCTION

300

PORTLAND

**339**

ITEM #

**07991941**

LOT #

2000 FORD F350 SUPER DUTY

320

COLOR BLACK

VIN 0

MILEAGE 50,103

ACV 25,775

REPAIR COST 0

TITLE TYPE SALVAGE CERTIFICATE

DAMAGE TYPE ALL OVER

315

BID \$5,000

GO

ENTER BID

BID LOG

\$90 YOUR BID

\$100 INTERNET - AZ

\$125 YOUR BID

\$150 YOUR BID

\$175 YOUR BID

\$200 INTERNET - AZ

\$225 INTERNET - AZ

\$5000 YOUR BID

GOING...

RUNNING

Figure 4

ITEM# 4    1993 HONDA CIVIC EX

LOT# 06425031

SOUTH BOSTON

OCT 29, 2001

VERSION 1.6

|      |      |      |      |      |
|------|------|------|------|------|
| 175  | 200  | 225  | 250  | 275  |
| 300  | 325  | 350  | 375  | 400  |
| 425  | 450  | 475  | 500  | 525  |
| 550  | 575  | 600  | 625  | 650  |
| 675  | 700  | 725  | 750  | 775  |
| 800  | 825  | 850  | 875  | 900  |
| 925  | 950  | 975  | 1000 | 1025 |
| 1050 | 1075 | 1100 | 1125 | 1150 |
| 1175 | 1200 | 1225 | 1250 | 1275 |
| 1300 | 1325 | 1350 | 1375 | 1400 |

INTERNET BID RECEIVED

LAST BID

\$175

GO

GOING

SOLD

Figure 5



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Organization  
International Bureau



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[US/US]; 3210 Quandt Road, Lafayette, CA 94549 (US).  
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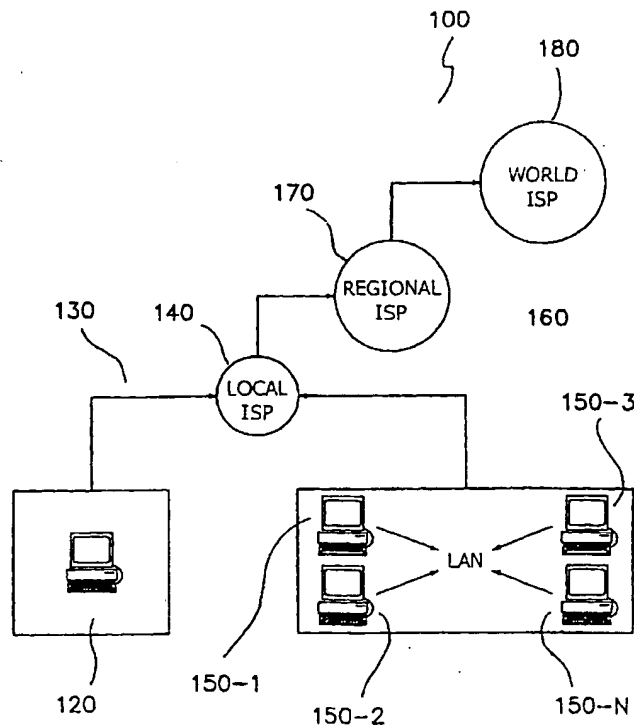
(72) Inventors; and

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(75) Inventors/Applicants (for US only): **BAUER, David, L.**

[Continued on next page]

(54) Title: **ONLINE BIDDING SYSTEM**



(57) Abstract: An online auction system comprising a preliminary bidding portion and a virtual auction portion is disclosed herein. The preliminary bidding portion allows bidders to access auction items and input bids during a preestablished extended period of time. After the preliminary bidding portion concludes, the virtual auction portion provides bidders the opportunity to input bids on each item consecutively and individually from the preliminary auction portion in a manner similar to a conventional live auction. During the virtual auction portion, bidders are provided with a countdown to encourage further bidding before the previous bid becomes final. After each new bid is inputted, the countdown is reinitiated. The countdown is reinitiated until no new bids are input. An alert system notifies bidders that a particular item of interest is about to be offered for bid as part of the virtual auction portion. The system also provides bidders means for inputting proxy bids.



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BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X          | US 2001/0037281 A1 (FRENCH et al) 01 November 2001 (01.1.2001), figures 2A & 2B.   | 1, 15                 |
| Y          |  | 2-14, 16-32           |
| A          | US 6,058,379 A (ODOM et al) 02 May 2000 (02.05.2000).                              |                       |

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☐ See patent family annex.

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